

U.S. EPA Humboldt Mill Site Investigation

Private Well Sample Analytical Results

3/21/2012 and 3/22/2012

Analyte	MCLG (µg/L)	MCL (µg/L)	HMDW-007-02A	HMDW-007-02B	HMDW-001-02A	HMDW-001-02B	HMDW-002-02A	HMDW-002-02B	HMDW-003-02A	HMDW-003-02B	HMDW-004-02A	HMDW-004-02B	HMDW-005A-02A	HMDW-005A-02B												
Sample Type			Background	Background	HMDW-001	HMDW-002	HMDW-002	HMDW-003	HMDW-003	HMDW-004	HMDW-004	HMDW-004	HMDW-005A	HMDW-005A												
Matrix			Groundwater	Groundwater	Groundwater																					
Metals (ug/L)																										
Aluminum			20.0	U	20.0	UJ	20.0	U	20.0	UJ	20.0	U	20.0	UJ	207	60.7										
Antimony			0.050	U	0.050	U	0.050	U																		
Arsenic*		10	9.19		9.12	0.828	J	0.803	J	29.1	28.4	1.14	0.439	J	0.973	J	1.1	0.300	U	0.434	J					
Barium	2000	2000	19.7	J	19.2	J	5.3	J	5.2	J	132	J	129	J	2.7	J	2.6	J	2.5	J	2.5	J	13.1	J	13	J
Beryllium	4	4	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U								
Cadmium	5	5	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.071	J	0.050	UJ								
Calcium			24400		24500		25500		25600		71800		71400		4270	J	4310	J	13900		13700		4900	J	4820	J
Chromium	100	100	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U								
Cobalt			1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U								
Copper	1300	1300	1.0	U	1.0	U	2.0	J	1.0	U	2.1	J	1.0	U	1540		1700		72.6		73.7		343		239	
Iron			257		210		1180		840		27800		27300		271		28.3	J	51.4	J	35.9	J	408		371	
Lead	zero	15	0.057	J	0.050	U	0.479	J	0.052	J	0.050	U	0.050	U	2.97		2.43		0.088	J	0.078	J	4.24		2.07	
Magnesium			7910		8020		11000		10800		21400		21100		1410	J	1390	J	4220	J	4190	J	1570	J	1540	J
Manganese			119		120		40.4		39.7		2560		2510		3.1	J	3.1	J	5.5	J	5.6	J	55.6		52.9	
Mercury	2	2	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U								
Nickel			2.0	U	2.0	U	2.6	J	3.5	J	2.0	U	2.0	U	2.3	J	2.8	J								
Potassium			1640	J	1660	J	2250	J	2210	J	6320		6180		954	J	979	J	1650	J	1670	J	831	J	822	J
Selenium	50	50	0.200	U	0.200	U	0.200	U	0.200	U	0.217	J	0.200	U	0.200	U	0.200	U								
Silver			1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U								
Sodium			2030	J	2070	J	1320	J	1310	J	67000		66100		1240	J	1220	J	1930	J	1890	J	4380	J	4290	J
Thallium*	0.5	2	0.126	J	0.295	J	0.571	J	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
Zinc			5.0	U	5.0	U	109		93.6		20.2	J	14.9	J	131		160		5.0	U	5.0	U	13.5	J	9.5	J
Vanadium			0.200	U	0.200	U	0.200	U	0.200	U	0.683	J	0.870	J	0.200	U	0.200	U	0.275	J	0.200	U	0.200	U	0.200	U

Note:

MCL - Maximum Contaminant Level as listed by U.S. EPA under the National Primary Drinking Water Regulations

MCLG - Maximum Contaminant Level Goal as listed by U.S. EPA under the National Primary Drinking Water Regulations

µg/L - micrograms per liter

HMDW - Residential well sample identification number (Humboldt Mill Drinking Water)

29.1 Red border indicates that the analytical result exceeded the MCL/MCLG level

U - The analyte was not detected above the method detection limit (MDL). This table lists MDL values for all U flagged analytes

J - The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample

MCLs and MCLGs - Values used in this table are listed in "U.S. EPA 2009 Edition of the Drinking Water Standards and Health Advisories" - EPA 822-R-09-011

* - Updated values for arsenic and thallium obtained from "Basic Information about Regulated Drinking Water Contaminants and Indicators" <http://water.epa.gov/drink/contaminants/basicinformation/>